

# ENGINE LOG BOOK

#### **Service Information**

Consult the Continental web site at http://www.continental.aero for engine related news or announcements. The web site contains useful information for Continental engine owners, including service information and illustrated parts catalogs.

If Internet access is not available, contact our Customer Service Department at: 1-888-826-5465 Toll free in the United States or 1-251-436-8299 for International customers

#### **Warranty Information**

This product is covered by Continental Aerospace Technologies™ product warranty. To read or download a copy for your records, please visit the Product Warranty page on our web site at; http://www.continental.aero/services/warranty.aspx or scan the QR Code to the right to navigate to the page:



#### **Instructions for Continued Airworthiness**

For complete access to the engine Instructions for Continued Airworthiness, Illustrated Parts Catalogs, Service Documents, Technical Briefs, company news, and upcoming events, please take a few moments to register the serial number of your engine on our web site: http://www.continental.aero/services/owner-registration.aspx or scan the QR Code to the right to navigate to the page:



#### **Engine Returns**

Return engines for core credit with this log book to: **Continental Aerospace Technologies** 2039 Broad Street Mobile, AL 36615 USA

Return engines for overhaul with this log book to: **Continental Services Factory Service Center** 8600 County Road 32 Fairhope, Alabama 36532 USA

## **USE ONLY FUEL SPECIFIED IN OPERATOR'S** MANUAL OR TYPE CERTIFICATE DATA SHEET **USE OF AUTOMOTIVE FUEL IS PROHIBITED**



## **Continental Motors**

**FAA PRODUCTION CERTIFICATE NO. 508** 

Printed: 12/12/2023 Test Date:12/12/2023

This engine model TSI0550K2B, serial number 1046537 was manufactured by Continental Motors, Inc. in accordance with approved design data and the applicable requirements of 14 CFR, Part 21. The approved design data for this engine incorporates all changes required by applicable FAA Airworthiness Directives and Continental Motors Service Bulletins.

CONTINENTAL MOTORS, INC.

Form 6012-03 (Rev Sept 2014)

	Total	Time	Time Sir Over	nce Last 'haul	Engine Service and Maintenance Record		
Date	Hours	Min	Hours	Min	Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins		

wo: M24-989

Engine · page 1 of 1



Capital Flight - 3309 Delta Lane - Middleton, Wisconsin 53562 - 1,608,291,3360

**N414LE** Flight: 24.3

Continental, TSIO-550-K2, S/N: 1046537

March 18, 2024

Total Time: 32.3

Performed Cirrus Maintenance Program CMX Delivery Quality Check II (Initial 25 Hr. Inspection). Performed 25 Hr. Inspection of engine IAW Cirrus AMM 5-20 and Continental Maintenance Manual. Performed borescope inspection of cylinders IAW Continental Maintenance Manual. No discrepancies noted. Drained engine oil and serviced with 8 quarts of Phillips 20W50XC. Replaced oil filter with new AA48108-2. Performed particle inspection on filter with no discrepancies noted. Oil sample taken for analysis by Blackstone Labs. Run up and leak checks performed with no discrepancies noted. All work accomplished IAW Cirrus AMM 12-10 and Continental Maintenance Manual.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Capital Flight under work order: M24-989.

Allan O. Checky Jr. A&P, IA 395828185

wo: M25-001



Capital Flight · 3309 Delta Lane · Middleton, Wisconsin 53562 · 1.608.291.3360

N414LE Flight: 48.9

Continental, S/N: 1046537 Total Time: 65.6

April 08, 2024

Performed Cirrus Maintenance Program CMX In-Service Inspection I (50 Hr. Inspection). Performed engine operational and function check IAW Cirrus AMM 5-30. Performed engine 50 Hr. inspection IAW Cirrus AMM 5-20 and Continental Maintenance Manual. Drained engine oil and serviced with 8 quarts Phillips 20W50XC. Replaced oil filter with new AA48108-2. Performed particle inspection on filter with no discrepancies noted. Oil sample taken for analysis by Blackstone Labs. Run up and leak checks performed with no discrepancies noted. All work accomplished IAW Cirrus AMM 12-10 and Continental Maintenance

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Capital Flight under work order: M25-001.

Allan O. Checky Jr. A&P, IA 395828185

Wo: M24-1029  Wo: M24-1029  Engine - page 1 of 1  Capital Flight - 3309 Data Lane - Middleton, Wisconsin 53562 - 1.608.291.3360  N414LE Flight: 98.9 Total Time: 125.0  1. Performed Cirrus Maintenance Program CMX In-Service Inspection II (100 Hr. Inspection). Performed engine operation and function check IAW Cirrus AMM 5-30. Performed engine in 00 Hr. inspection IAW Cirrus AMM 5-20. Automatical with no discrepancies noted. All work accomplished IAW Cirrus AMM 12-10 and Continental Maintenance Manual. Performed cylinder differential leak down tests and borescope inspection on Giscrepancies noted. All work accomplished IAW Cirrus AMM 12-10 and Continental Maintenance Manual. Performed cylinder differential leak down tests and borescope inspections with no discrepancies noted. Leak down results #117600, #217400, #3		Total	Time	Time Sin Over		Engine Service and Maintenance Reco	ord	
Capital Flight · 3309 Delita Lane · Middleton, Wisconsin 53562 · 1.608.291.3360  M414LE Continental, S/N: 1046537 May 16, 2024  Flight: 96.9 Total Time: 125.0  1. Performed Cirrus Maintenance Program CMX In-Service Inspection III (100 Hr. Inspection). Performed engine operation and function check IAW Cirrus AMM 5-30. Performed engine of and serviced with 8 quarts Phillips 20W50XC. Replaced oil filter with new AA48108-2. Performed particle inspection on filter, no discrepancies noted. Run up and leak checks performed with no discrepancies noted. All work accomplished IAW Cirrus AMM 12-10 and Continental Maintenance Manual. Performed cylinder differential leak down tests and borescope inspections with no discrepancies noted. Leak down results #1)76/80, #2)74/80, #3)74/80, #3)74/80, #3)70/80, #6)76/80. Magneto to engine timing reset. Spark plugs serviced and reinstalled vin 12 new gaskets #M674. Fuel injectors removed, cleaned, inspected and reinstalled using 12 new o-rings #630979-9, 6 copper washers #X1473, and 6 rubber washers #640612.  2. Removed prop governor #21285-001 serial #G8790NJ and installed new # 21285-001 (S-1-44F Rev. B) serial #G8941NJ using new gasket #21285-101 IAW Cirrus AMM 61-20.  3. Performed fuel flow setup IAW Cirrus AMM 73.20.  With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Capital Flight under work order: M24-1029.  Allan O. Checky Jr. A&P, IA 395828185  Wo: M24-1052  Engine - page 1 of 1	9	Hours	Min	Hours	Min	installation and compliance with inspections, Airworthiness Direct		
Capital Flight · 3309 Delta Lane · Middleton, Wisconsin 53562 · 1.608.291.3360  N414LE Continental, S/N: 1046537 May 16, 2024 Flight: 96.9 Total Time: 125.0  1. Performed Cirrus Maintenance Program CMX In-Service Inspection II (100 Hr. Inspection). Performed engine operation and function check IAW Cirrus AMM 5-30. Performed engine 100 Hr. inspection IAW Cirrus AMM 5-20 and Continental Maintenance Manual. Drained engine oil and serviced with 8 quarts Phillips 20WSOXC. Replaced oil filter with new AA48109-2. Performed particle inspection on filter, no discrepancies noted. Run up and leak checks performed with no discrepancies noted. Run of continental Maintenance Manual. Performed cylinder differential leak down tests and borescope inspections with no discrepancies noted. Leak down results #117680, #37/4	wo	: M24-1029					1	
M414LE Flight: 96.9 Total Time: 125.0  1. Performed Cirrus Maintenance Program CMX In-Service Inspection II (100 Hr. Inspection). Performed engine operation and function check IAW Cirrus AMM 5-30. Performed engine 100 Hr. inspection IAW Cirrus AMM 5-20 and Continental Maintenance Manual. Drained engine oil and serviced with 8 quarts Phillips 20W50XC. Replaced oil filter with new AA48108-2. Performed particle inspection on filter, no discrepancies noted. Run up and leak checks performed with no discrepancies noted. Leak down results #1176/80, #217480, #37480, #374740, #57790, #5780. Magneto to engine timing reset. Spark plugs serviced and reinstalled with 12 new gaskets #M674. Fuel injectors removed, cleaned, inspected and reinstalled using 12 new o-rings #630979-9, 6 copper washers #X1473, and 6 rubber washers #640612. 2. Removed prop governor #21285-001 serial #68790NJ and installed new # 21285-001 (S-1-44F Rev. B) serial #68941NJ using new gasket #21285-101 IAW Cirrus AMM 61-20. 3. Performed fuel flow setup IAW Cirrus AMM 73.20. With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Capital Flight under work order: M24-1029.  Allan O. Checky Jr. A&P, IA 395828185  Wo: M24-1052  Engine - page 1 of 1  Capital Flight and incition check IAW Cirrus AMM 5-30. Performed engine 50 Hr. Inspection). Performed engine operational and function check IAW Cirrus AMM 5-30. Performed engine 50 Hr. Inspection iAW Cirrus AMM 5-20 and Continental Maintenance Program CMX In-Service Inspection I (50 Hr. Inspection). Performed engine operational and function check IAW Cirrus AMM 5-30. Performed engine 50 Hr. Inspection iAW Cirrus AMM 5-20 and Continental Maintenance Manual. Drained engine oil and serviced with 8 quarts Phillips 20W50XC. Replaced oil filter with new AA48108-2. Performed particle inspection on filter with ordinance Manual.  With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with						FLIGHT		
Flight: 96.9 Total Time: 125.0  1. Performed Cirrus Maintenance Program CMX In-Service Inspection II (100 Hr. Inspection). Performed engine operation and function check IAW Cirrus AMM 5-30. Performed engine oil and serviced with 8 quarts Phillips 20W50XC. Replaced oil filter with new AA48108-2. Performed particle inspection on filter, no discrepancies noted. Run up and leak checks performed with no discrepancies noted. All work accomplished IAW Cirrus AMM 12-10 and Continental Maintenance Manual. Performed cylinder differential leak down tests and borescope inspections with no discrepancies noted. Leak down results #1)76/80. #2)74/80, #3)74/80, #3)70/80, #6)76/80. Magneto to engine timing reset. Spark plugs serviced and reinstalled with 12 new gaskets #M674. Fuel injectors removed, cleaned, inspected and reinstalled using 12 new o-rings #630979-9, 6 copper washers #X1473, and 6 rubber washers #640612.  2. Removed prop governor #21285-001 serial #Q8790NJ and installed new # 21285-001 (S-1-44F Rev. B) serial #G8941NJ using new gasket #21285-101 IAW Cirrus AMM 61-20.  3. Performed fuel flow setup IAW Cirrus AMM 73.20.  With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Capital Flight under work order: M24-1029.  Allan O. Checky Jr. A&P, IA 395828185  Wo: M24-1052  Engine - page 1 of 1  Wo: M24-1052  Engine - page 1 of 1			Capit	al Flight · 3:	309 Delta	Lane · Middleton, Wisconsin 53562 · 1.608.291.3360	]	
1. Performed Cirrus Maintenance Program CMX In-Service Inspection III (100 Hr. Inspection). Performed engine operation and function check IAW Cirrus AMM 5-30. Performed engine 100 Hr. inspection IAW Cirrus AMM 5-20 and Continental Maintenance Manual. Drained engine 100 Hr. inspection on filter, no discrepancies noted. It up and leak checks performed with no discrepancies noted. All work accomplished IAW Cirrus AMM 12-10 and Continental Maintenance Manual. Performed cylinder differential leak down tests and borescope inspections with no discrepancies noted. Leak down results #1)76/80, #2)74/80, #3/74/80, #3/74/80, #3/74/80, Magneto to engine timing reset. Spark plugs serviced and reinstalled with 12 new gaskets #M674. Fuel injectors removed, cleaned, inspected and reinstalled using 12 new o-rings #630979-9, 6 copper washers #X1473, and 6 rubber washers #640612.  2. Removed prop governor #21285-001 serial #G8790NJ and installed new # 21285-001 (S-1-44F Rev. B) serial #38941NJ using new gasket #21285-101 IAW Cirrus AMM 61-20.  3. Performed fuel flow setup IAW Cirrus AMM 73.20.  With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Capital Flight under work order: M24-1029.  Allan O. Checky Jr. A&P, IA 395828185  Wo: M24-1052  Engine - page 1 of 1  Capital Flight: 3309 Delta Lane - Middleton, Wisconsin 53562 · 1.608.291.3360  M414LE  Continental, S/N: 1046537  Total Time: 185.8  Performed Cirrus Maintenance Program CMX In-Service Inspection I (50 Hr. Inspection). Performed engine operational and function check IAW Cirrus AMM 5-30. Performed engine 50 Hr. inspection IAW Cirrus AMM 5-20 and Continental Maintenance Manual. Drained engine oil and serviced with 8 quarts Phillips 20W50XC. Replaced oil filter with new AA48108-2. Performed particle inspection on filter with no discrepancies noted. All work accomplished IAW Cirrus AMM 12-10 and Continental Maintenance Manual.  With respect to the work performed, this engine is approved for return to ser				Total	Conti	ilnental, S/N: 1046537 May 16, 2024		
Capital Flight · 3309 Delta Lane · Middleton, Wisconsin 53562 · 1.608.291.3360  N414LE Continental, S/N: 1046537 Flight: 145.4 Total Time: 185.8  Performed Cirrus Maintenance Program CMX In-Service Inspection I (50 Hr. Inspection). Performed engine operational and function check IAW Cirrus AMM 5-30. Performed engine 50 Hr. inspection IAW Cirrus AMM 5-20 and Continental Maintenance Manual. Drained engine oil and serviced with 8 quarts Phillips 20W50XC. Replaced oil filter with new AA48108-2. Performed particle inspection on filter with no discrepancies noted. Oil sample taken for analysis by Blackstone Labs. Run up and leak checks performed with no discrepancies noted. All work accomplished IAW Cirrus AMM 12-10 and Continental Maintenance Manual.  With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Capital Flight under work order: M24-1052.	2	formed e inspectio viced wit inspectio ancies n Performe noted. L engine ti tors remo #X1473, Removed Rev. B) s	engine on IAW Con IAW Con IAW Con on filte oted. All ed cylinde eak downing resoved, cle and 6 rud prop gerial #G	peration a cirrus AMM rts Phillips er, no disc work accoo ler differen n results # set. Spark aned, insp abber wash sovernor # 8941NJ us	and funci 15-20 and 20W50X crepancies mplished tial leak t1)76/80, plugs se sected and ers #640 21285-06 sing new	ction check IAW Cirrus AMM 5-30. Performed engine 100 Hr. and Continental Maintenance Manual. Drained engine oil and ser-XC. Replaced oil filter with new AA48108-2. Performed particle es noted. Run up and leak checks performed with no discrepded IAW Cirrus AMM 12-10 and Continental Maintenance Manual. Ac down tests and borescope inspections with no discrepate of discrepations with no discrepations with no discrepations with no discrepations of discrepations with 12 new gaskets #M674. Fuel injected and reinstalled with 12 new gaskets #M674. Fuel injected reinstalled using 12 new o-rings #630979-9, 6 copper washers 10612.	Ir.	
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N414LE Flight: 145.4  Continental, S/N: 1046537  June 21, 2024  Performed Cirrus Maintenance Program CMX In-Service Inspection I (50 Hr. Inspection). Performed engine operational and function check IAW Cirrus AMM 5-30. Performed engine 50 Hr. inspection IAW Cirrus AMM 5-20 and Continental Maintenance Manual. Drained engine oil and serviced with 8 quarts Phillips 20W50XC. Replaced oil filter with new AA48108-2. Performed particle inspection on filter with no discrepancies noted. Oil sample taken for analysis by Blackstone Labs. Run up and leak checks performed with no discrepancies noted. All work accomplished IAW Cirrus AMM 12-10 and Continental Maintenance Manual.  With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Capital Flight under work order: M24-1052.	With are o	respect to on file with a O. Check	the work Capital I y Jr. A&I	performe Flight unde	d, this er er work o	ngine is approved for return to service. Details of work performed order: M24-1029.	1	
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·	With are of Allar	respect to on file with a O. Checky : M24-1052	the work Capital I y Jr. A&I	c performe Flight under P, IA 39582	d, this erer work o	Engine is approved for return to service. Details of work performed order: M24-1029.  Engine · page 1 of 1  Lane · Middleton, Wisconsin 53562 · 1.608.291.3360  Inental, S/N: 1046537  June 21, 2024		
	NA Allar  NA Fli  Perigine AMI 20V  crep with Mar  With are	respect to on file with a O. Checky in M24-1052 in M24-1052 in M24-1052 in respect to on file with in the file with in th	Capital for Capita	tal Flight · 3  Total stenance Penction che ental Main bil filter with sample takenoted. All vik performer Flight under the performer pe	28185  28185  Contl Time: 18 Program (ck IAW (tenance in new Atenance in awork accord, this ever work (center)	Engine is approved for return to service. Details of work performed order: M24-1029.  Engine · page 1 of 1  Engine · page 1 of 1  Engine · page 1 of 1  La Lane · Middleton, Wisconsin 53562 · 1.608.291.3360  Inental, S/N: 1046537  June 21, 2024  85.8  CMX In-Service Inspection I (50 Hr. Inspection). Performed encirrus AMM 5-30. Performed engine 50 Hr. inspection IAW Cirrus and Manual. Drained engine oil and serviced with 8 quarts Phillips AA48108-2. Performed particle inspection on filter with no dispanalysis by Blackstone Labs. Run up and leak checks performed complished IAW Cirrus AMM 12-10 and Continental Maintenance engine is approved for return to service. Details of work performed order: M24-1052.		
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		Total Time		Time Since Last Overhaul		Lingine Service and Maintenance Record		
Date		Hours	Min	Hours	Min	Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives Special Inspections, Modifications and Service Bulletins		
rie								
<del>-</del>	MODE S/N: 9 REG. I ENGIN	i: Cirrus EL: SR22T 794 NO: N414LE NE MODEL: NE SN: 1046	TSIO-550-K	CIRRI	Repai 114 C	## Factory Service Center  r Station No. 9B0R988C  irrus Landing  TN 37701  W/O #: KTYS40329-06-2024  DATE: 06-30-2024  ENG TT: 155.3  Hobbs: 197.9		
= '	6 P	ne Entries erformed en afety cabled	gine operatio	onal and fund / Cimus SR22	ction check IA	W Cirrus AMM 5-30.  M 12-10		
	the Fe	rcraft, airfran deral Aviatio Station CRS	n Administra	ation and is a	ller or appliar pproved for r	nce identified was repaired/inspected in accordance with current requirements of etum to service. Pertinent details of this work order are on file at this Certified		
_	DATE:	06-30-2024		SIGNEDS	2 fly	WORK ORDER: KTYS40329-06-2024		
_	- ,			Scott Wood Repair Stati	on No. 9B0F	Printed by EBIS (EBISCloud com)		
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# Thoroughbred Aviation Maintenance, Inc. FAA CRS# R81R199Y Powerplant

	SR22T	AC Type:	F25038	WO:	3/14/2025	Date:
Hobbs 2	169	Tach:	9794	AC SN:	N414LE	AC REG:
Eng TSO:	169	Eng TT:	1046537	Eng SN:	TSIO-550-K	Eng. Model:
Prop TSO:	169	Prop TT:	TM587	Prop SN:	4C1-F650A1	Prop Model:

- 1 Preformed Annual/ 100 hr. inspection and seving IAW Continental AMM
- 2 Compression tested engine, M/O 42/80: #1:72, #2:72, #3:73, #4:72, #5:71, #6:76.
- 3 Drained oil. cut filter, some carbon noted, install & torqued new oil filter. Serviced with 8qrts. Phillips XC 20W50 P/N: AA48108-2
- 4 Removed, inspected, tested, installed with torqued spees spark plugs with new gaskets. PN: M674
- 5 Removed and replaced with new B2 spark plug P/N: URHB32E
- 6 C/W annual/100hr. Lubrication scheduele
- 7 All AD's are up to date
- 8 Preformed post maintenance run up and leak check good.

END

I certify this Powerplant has been inspected/repaired/serviced in accordance with current manufactures maintenance manuals & applicable FARs and was found to be in Airworthy Condition.

## MAINTENANCE RELEASE

The aircraft/article identified was repaired/serviced/inspected in accordance with current FAA regulations and was found airworthy for return to service. Pertinent details of the repair/service/inspection are on file at this agency under

WO# F25038

Signed:

For CRS: R81R199Y Date: 3/14/2025

Form TAM006-03/22